In the claims:

Please amend claims 11 and 20 as indicated and cancel claim 25. A detailed listing of the claims is presented, below.

- 1. (Previously Presented) A composite comprising a metallic nanoparticulate substrate component and a polymeric ligand component, said ligand component comprising a monodentate nitrogenous coupling moiety coupling said ligand component and said substrate component.
- 2. (Original) The composite of claim 1 wherein said substrate comprises a nanoparticle selected from CdSe, CdS, CdTe, ZnS, ZnSe, Co and combinations thereof.
- 3. (Original) The composite of claim 1 wherein said nitrogenous moiety is selected from amino, pyridinyl and aminopyridinyl moieties.
- 4. (Original) The composite of claim 1 wherein said polymeric ligand component is selected from poly(ethylene glycol), poly(hexaethylene glycol), poly(hexadecylethylene glycol), poly(ϵ -caprolactone), poly(lactide), poly(glycolide), polyglycidyl, polypropylene oxide and combinations thereof.
- 5. (Original) The composite of claim 4 wherein said polymeric component comprises poly(ethylene glycol), said component with a terminus comprising a functional group moiety selected from hydroxy, alkyl, alkoxy, carboxylate, thymine, ammonium salt and substituted ammonium salt moieties.
- 6. (Previously Presented) An emissive nanoparticle composite comprising a CdSe nanoparticle and an ethylene glycol ligand component, said component comprising a nitrogenous coupling terminus selected from pyridinyl and aminopyridinyl moieties, said nitrogenous coupling terminus coupling said ligand component and said nanoparticle.
- 7. (Original) The composite of claim 6 wherein said ligand component comprises poly(ethylene glycol) having a molecular weight of about 200 to about 5,000.
- 8. (Original) The composite of claim 6 wherein said ligand component comprises about 2 to about 20 ethylene glycol monomers.

- 9. (Original) The composite of claim 6 wherein said ethylene glycol component has a terminus comprising a functional group moiety selected from hydroxy, alkyl, alkoxy, carboxylate, thymine, ammonium salt and substituted ammonium salt moieties.
- 10. (Original) The composite of claim 6 wherein said CdSe nanoparticle further comprises a layer thereon selected from ZnS and ZnSe.
- 11. (Currently Amended) A polymeric compound comprising a pyridine ligand substituted with a poly(ethylene glycol) component comprising at least 2 ethylene glycol monomers, said poly(ethylene glycol) component coupled to said pyridine ligand with one of an ether and an amine linkage, and a terminus comprising a functional group moiety selected from hydroxy, alkyl, alkoxy, carboxylate, thymine, ammonium salt and substituted ammonium salt moieties.
- 12. (Previously Presented) The polymeric compound of claim 11 comprising up to about 100 ethylene glycol monomers.
- 13. (Previously Presented) The polymeric compound of claim 11 comprising a co-polymeric component selected from poly(hexaethylene glycol), poly(hexadecylethylene glycol), poly(ϵ -caprolactone), poly(lactide), poly(glycolide), polyglycidyl, polypropylene oxide and combinations thereof.
- 14. (Previously Presented) A system for nanoparticulate dispersion, said system comprising:

a composite comprising a nanoparticulate substrate and a first ligand component, said composite in a first liquid medium; and

a second ligand component in a second liquid medium, said second ligand component at least partially soluble in said second liquid medium and selected from poly(ethylene glycol), poly(hexaethylene glycol), poly(hexadecylethylene glycol), poly(ϵ -caprolactone), poly(lactide), poly(glycolide), polyglycidyl, polypropylene oxide and combinations thereof, said second ligand component comprising a nitrogenous coupling moiety.

- 15. (Original) The system of claim 14 wherein said second ligand component has an affinity for said nanoparticulate substrate greater than said first ligand component.
- 16. (Original) The system of claim 15 wherein said second ligand component comprises a pyridinyl terminus.
- 17. (Original) The system of claim 16 wherein said second ligand component comprises poly(ethylene glycol) and said second liquid medium is aqueous.
- 18. (Original) The system of claim 14 wherein said nanoparticulate substrate comprises CdSe and said second ligand component has a greater affinity for said substrate than said first ligand component.
- 19. (Original) The system of claim 18 wherein said second ligand component comprises poly(ethylene glycol) and a pyridinyl terminus.
- 20. (Currently Amended) A method of using ligand solubility to disperse a nanoparticulate substrate, said method comprising:

providing a composite comprising a nanoparticulate substrate and a first ligand component; and

contacting said composite with a second ligand component, said second ligand component in a liquid medium, said second ligand component comprising a nitrogenous coupling moiety and at least partially soluble in said medium, said contact with said second ligand component <u>displacing said first ligand component and</u> dispersing said nanoparticulate substrate in said medium.

- 21. (Original) The method of claim 20 wherein said substrate comprises a nanoparticle selected from CdSe, CdS, CdTe, ZnS, ZnSe, Co and combinations thereof.
- 22. (Original) The method of claim 20 wherein said second ligand component is a polymer selected from poly(ethylene glycol), poly(hexaethylene glycol), poly(hexadecylethylene glycol), poly(ϵ -caprolactone), poly(lactide), poly(glycolide), polyglycidyl, polypropylene oxide and combinations thereof.
- 23. (Original) The method of claim 22 wherein said second ligand component comprises poly(ethylene glycol).
- 24. (Original) The method of claim 22 wherein said second ligand component further comprises a pyridinyl terminus.

- 25. (Canceled)
- 26. (Original) The method of claim 25 wherein said liquid medium is aqueous and contact with said second ligand component disperses said nanoparticulate substrate therein.